Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A femoral stem for hip prosthesis, comprising:

- a main body with mainly longitudinal development and with a generally wedge shape, adapted to be inserted into the femoral canal present in ~~the~~ a body of ~~the~~ a femur;
- a central body of a generally trapezoidal shape integral with said main body, adapted to be located in ~~the~~ a proximal zone of said femur; and
- an appendix projecting from said central body, provided with a terminal pin adapted to receive a spherical head of a joint in ~~the~~ a cotyle belonging to said prosthesis and inserted in ~~the~~ an acetabular zone of ~~the~~ a pelvic bone,

wherein said main body and said central body ~~being~~ are defined by a shaped surface on ~~the~~ a medial side of the femoral stem and by a surface having a mixtilinear ~~surface~~ profile on ~~the~~ an opposite lateral side,

~~wherein~~ wherein said central body includes a shaped notch in the form of an open-ended slot ~~is present in said central body~~,

wherein said notch ~~starting from~~ includes an open end at the mixtilinear ~~surface~~ profile of said main body and ~~extending up to the proximity of~~ extends generally toward the projecting appendix, said shaped notch passing through ~~the~~ a thickness of said central body from ~~the~~ an anterior side to ~~the~~ a posterior side of the femoral stem,

wherein the central body includes a first zone, arranged generally to face a greater trochanter of said femur, and a second zone, arranged generally to face a lesser trochanter of said femur, and

wherein said first zone and said second zone are joined at a bridge portion disposed adjacent a closed end of the notch at the posterior side of the femoral stem.

2. (currently amended) The femoral stem according to claim 1, ~~wherein~~ wherein said shaped notch ~~consists of~~ has a smooth concave-convex continuous inner surface ~~defining a profile having generally the shape of a half-slot~~.

3. (currently amended) The femoral stem according to claim 1, ~~wherein~~ wherein said mixtilinear ~~surface~~ profile consists of a first generally straight ~~surface belonging to~~ profile at said central body, and a second generally straight ~~surface belonging to~~ profile at said main body[[,]] ~~connected to~~ approaching said first ~~surface~~ profile ~~through a generally convex radiused zone from which~~ at the opening of said shaped notch ~~is starting~~.

4. (currently amended) The femoral stem according to claim 3, ~~wherein~~ wherein ~~the~~ an extension of said second ~~surface~~ profile in the direction of the first profile defines with said first ~~surface~~ profile an acute angle.

5. (canceled)

6. (currently amended) The femoral stem according to claim [[5]] 2, ~~wherein~~ wherein said inner surface of said shaped notch has a profile that consists of a first ~~stretch connected to said mixtilinear surface with~~ portion beginning at the opening of the notch having a generally constant cross section, and a second ~~stretch~~ portion continuing from the first portion and extending until below said bridge, ~~with~~ having a widened cross section.

7. (currently amended) The femoral stem according to claim [[5]] 1, ~~wherein~~ wherein said first zone of said central body ~~is externally provided with at least a~~ includes at least one external longitudinal fin generally ~~developed~~ extending for the entire length of said first zone.

8. (currently amended) The femoral stem according to claim 7, ~~wherein~~ wherein said at least one fin is arranged along a longitudinal axis generally parallel to said first ~~surface~~ profile of said mixtilinear ~~surface~~ profile.

9. (currently amended) The femoral stem according to claim 7, ~~wherein~~ wherein said at least one fin has a cross sectional conical profile.

10. (currently amended) The femoral stem according to claim 1, ~~wherein~~ wherein said shaped surface has a concave-convex profile in longitudinal section.

11. (new) The femoral stem according to claim 1, wherein the shaped notch is a solitary notch.

12. (new) The femoral stem according to claim 1, wherein the first and second zones are connected only at the bridge, and are otherwise completely separated by the shaped notch.